SEQUENCE LISTING

- (1) GENERAL INFORMATION:
 - (i) APPLICANTS: Graves, Scott S. Reno, John M.

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Searle, Stephen M.J.
Henry, Andrew H.
Pedersen, Jan T.
Rees, Anthony R.

- (ii) TITLE OF INVENTION: HUMANIZED ANTIBODIES THAT BIND TO THE ANTIGEN BOUND BY ANTIBODY NR-LU-13 AND THEIR USE IN PRETARGETING METHODS
- (iii) NUMBER OF SEQUENCES: 19
- (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: Seed IP Law Group
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 - (C) CITY: Seattle
 - (D) STATE: Washington
 - (E) COUNTRY: USA
 - (F) ZIP: 98104
- (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: IBM PC compatible
 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
- (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER: US
 - (B) FILING DATE: 24-JAN-2002
 - (C) CLASSIFICATION:
- (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Sharkey Ph.D., Richard G.
 - (B) REGISTRATION NUMBER: 32,629
 - (C) REFERENCE/DOCKET NUMBER: 690022.527C2
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- (2) INFORMATION FOR SEQ ID NO:1:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 31 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:	
CCTGACGAAT TCGTTGACAT TGATTATTGA C	31
(2) INFORMATION FOR SEQ ID NO:2:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 32 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:	
CCTGACGCGG CCGCTTCGAT AAGCCAGTAA GC	32
(2) INFORMATION FOR SEQ ID NO:3:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 44 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:	
GTTCGGCTCG AGCACAGCTA GCATTATCTG GGATAAGCAT GCTG	44
(2) INFORMATION FOR SEQ ID NO:4:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 34 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:	
GTTACGGGGC CCCTAACACT CTCCCCTGTT GAAG	34
(2) INFORMATION FOR SEQ ID NO:5:	

(2)

	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:	
GTAC	CGCGGAT CCCAGACACT GGACGCTG	28
(2)	INFORMATION FOR SEQ ID NO:6:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 30 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
ር እጥባ	(xí) SEQUENCE DESCRIPTION: SEQ ID NO:6:	30
	INFORMATION FOR SEQ ID NO:7:	50
(2)	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 34 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:	
GCT	GACGAAT TCTCATTTAC CCGGAGACAG GGAG	34
(2)	INFORMATION FOR SEQ ID NO:8:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:	
CCGTCTATTA CTGTTCTAGA GAGGTC	26
(2) INFORMATION FOR SEQ ID NO:9:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 41 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:	
CAGCGTGCGG CCGCACCATG GACATCAGGG CTCCTGCTCA G	41
(2) INFORMATION FOR SEQ ID NO:10:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:	
AGCAGTACCA AAGCACGTAC CGGGTG	26
(2) INFORMATION FOR SEQ ID NO:11:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:	22
TACGTGCTTT GGTACTGCTC CTC	23
(2) INFORMATION FOR SEQ ID NO:12:	
(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 34 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:	
GCTGACGGAT CCTCATTTAC CCGGAGACAG GGAG	34
(2) INFORMATION FOR SEQ ID NO:13:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xí) SEQUENCE DESCRIPTION: SEQ ID NO:13:	
CCGTCTATTA CTGTTCTAGA GAGGTC	26
(2) INFORMATION FOR SEQ ID NO:14:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 360 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
<pre>(ix) FEATURE: (A) NAME/KEY: CDS (B) LOCATION: 1360 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:</pre>	
GAG GTT CAG CTG CAG CAG TCT GGG GCA GAG CTT GTG AAG CCA GGG GCC Glu Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Val Lys Pro Gly Ala 1 5 10	48
TCA GTC AGG TTG TCC TGC ACA GCT TCT GGC TTC AAC ATT AAA GAC ACC Ser Val Arg Leu Ser Cys Thr Ala Ser Gly Phe Asn Ile Lys Asp Thr 20 25 30	96
TAT ATG CAC TGG GTG ATA GAG AGG CCT GAA CAG GGC CTG GAG TGG ATT Tyr Met His Trp Val Ile Glu Arg Pro Glu Gln Gly Leu Glu Trp Ile 35 40 45	144

	AGG Arg 50															1	.92
	GGC Gly															2	40
	CAG Gln															2	:88
	AGA Arg															3	36
	ACC Thr															3	860
(2)	INFO	ORMA'I	NOI	FOR	SEQ	ID N	NO:15	ō:									
		(i) 8	(A) (B)	LEI TYI		: 120 amino	ami aci	ino a id	: acida	5							
	(=	Li) N	OLEC	CULE	TYPI	E: pi	rote	in									
	(2	ki) S	SEQUE	ENCE	DESC	CRIP	rion:	: SE(Q ID	NO:	15:						
Glu 1	Val	Gln	Leu	Gln 5	Gln	Ser	Gly	Ala	Glu 10	Leu	Val	Lys	Pro	Gly 15	Ala		
Ser	Val	Arg	Leu 20	Ser	Cys	Thr	Ala	Ser 25	Gly	Phe	Asn	Ile	Lys 30	Asp	Thr		
Tyr	Met	His 35	Trp	Val	Ile	Glu	Arg 40	Pro	Glu	Gln	Gly	Leu 45	Glu	Trp	Ile		
Gly	Arg 50	Ile	Asp	Pro	Ala	Asn 55	Gly	Asn	Thr	Lys	Cys 60	Asp	Pro	Lys	Phe		
Gln 65	Gly	Lys	Ala	Thr	Ile 70	Thr	Ala	Asp	Thr	Ser 75	Ser	Asn	Thr	Ala	Tyr 80		
Leu	Gln	Leu	Ser	Ser 85	Leu	Thr	Ser	Glu	Asp 90	Thr	Ala	Val	Tyr	Tyr 95	Cys		
Ser	Arg	Glu	Val 100	Leu	Thr	Gly	Thr	Trp 105	Ser	Leu	Asp	Tyr	Trp 110	Gly	Gln		
Gly	Thr	Ser 115	Val	Thr	Val	Ser	Ser 120										

(2) INFORMATION FOR SEQ ID NO:16:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 321 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ix) FEATURE:
 - (A) NAME/KEY: CDS (B) LOCATION: 1..321
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:

							CTG Leu 15	48
							GGT Gly	96
 	 	 	 	 	 	 	CTG Leu	 144
	 	 		 			AGT Ser	192
							GAC Asp	240
		 	 	 	 	 	CCG Pro 95	288
	GGG Gly 100							321

- (2) INFORMATION FOR SEQ ID NO:17:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 107 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: protein
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:

Asp Ile Gln Met Ile Gln Ser Pro Ser Ser Met Phe Ala Ser Leu Gly $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$

Asp Arg Val Ser Leu Ser Cys Arg Ala Ser Gln Gly Ile Arg Gly Asn 20 25 30

Leu Asp Trp Tyr Gln Gln Lys Pro Gly Gly Thr Ile Lys Leu Ile $35 \hspace{1.5cm} 40 \hspace{1.5cm} 45$

Tyr Ser Thr Ser Asn Leu Asn Ser Gly Val Pro Ser Arg Phe Ser Gly 50 55 60

Ser Gly Ser Gly Ser Asp Tyr Ser Leu Thr Ile Ser Ser Leu Asp Ser 65 70 75 80

Glu Asp Phe Ala Asp Tyr Tyr Cys Leu Gln Arg Asn Ala Tyr Pro Tyr 85 90 95

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105

- (2) INFORMATION FOR SEQ ID NO:18:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 107 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly 1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Arg Gly Asn 20 25 30

Leu Asp Trp Tyr Gln Gln Lys Pro Gly Lys Gly Pro Lys Leu Leu Ile $35 \hspace{1cm} 40 \hspace{1cm} 45$

Tyr Ser Thr Ser Asn Leu Asn Ser Gly Val Pro Ser Arg Phe Ser Gly 50 60

Ser Gly Ser Gly Ser Asp Tyr Thr Leu Thr Ile Ser Ser Leu Gln Pro 65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln Arg Asn Ala Tyr Pro Tyr 85 90 95

Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

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(2) INFORMATION FOR SEQ ID NO:19:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 120 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Phe Asn Ile Lys Asp Thr 20 25 30

Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Gln Trp Met 35 40 45

Gly Arg Ile Asp Pro Ala Asn Gly Asn Thr Lys Cys Asp Leu Ser Phe 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Thr Ser Ile Asn Thr Ala Tyr 75 75 80

Met Glu Leu Ser Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ser Arg Glu Val Leu Thr Gly Thr Trp Ser Leu Asp Tyr Trp Gly Gln $100 \hspace{1.5cm} 105 \hspace{1.5cm} 110 \hspace{1.5cm}$

Gly Thr Leu Val Thr Val Ser Ser 115 120